

Harnessing Integrated Apps on the Mac - Science

March 5, 2009

Session 2

1. Open Safari (from Dock or Applications folder)

- Go to URL: <http://cffcollabday.wikispaces.com/Science>
- Select "Harnessing Integrated Apps on the Mac" link
- Complete the two initial surveys & return to the wiki page (control-click and open survey URL in new Tab or new Window)
- Click Session Files (from table of contents at top)
 - Click the first link, "RulerHigh.jpg;" the image will appear in the Safari window
 - Control-click (or right click with a two-button mouse) on the image
 - select "Add image to iPhoto library" from the context menu
 - click the Safari Back arrow to return to the wiki page
 - repeat for each of the Ruler images
- Click Science Links (from table of contents at top)
 - Open the first link, "How Things Fly: Bernoulli Brain-Teasers"
 - Control-click the first photo of a girl blowing across a strip of paper
 - select "Add image to iPhoto library" from the context menu
 - repeat for each of the first three photos
 - You are going to do one of these three demonstrations of Bernoulli's principle:
 - 10:20 (Session 2) -- Use Your Lips to Levitate
 - 12:10 (Session 3) -- Suspended in the Air Stream
 - 1:05 (Session 4) -- Balloons that Boggle

2. Open iPhoto (from Dock or Applications folder)

- Select Events
- Select all images collected
- Select File menu --> New Album from Selection and name it "Bernoulli"
- Keep iPhoto open

3. Open Photo Booth (from Dock or Applications folder)

- Take a still photo of each piece of equipment for use in demo
 - select single photo icon (far left in tool bar)
 - position the object in the window
 - click the red shutter button; wait for count down
 - repeat for each item depending on session
 - slips of paper, paper clips (Session 2)
 - straw, ping pong ball, funnel (Session 3)
 - balloons, string, water, funnel, straw (Session 4)
- Create movie of the demonstration
 - select movie icon (left of tool bar, right-most of three icons)
 - position the screen for your demo so the action will be recorded properly (do a little testing to be sure); don't move the screen or the laptop until finished

- click the Effects button (right side of tool bar)
 - select 4th page of effects (with Drag Backdrop Here squares)
 - position the Photo Booth and iPhoto windows so you can see both
 - find the 5 ruler jpg files
 - drag each onto a different block around the central “Normal” block
 - determine which ruler placement works best for your demo and click on it
 - move out of the screen as prompted
 - when you move back in, you will be in the foreground against the ruler background
- click the red shutter button; wait for the count down; perform the demo
- click the stop icon (gray square where the red shutter button had been - center of tool bar)
- Select the photo and click the iPhoto icon to add the movie to your iPhoto library
- Quit Photo Booth and iPhoto

4. Open iMovie (from Dock or Applications folder)

- Start a new project (File-->New Project...) with Standard (4:3) Aspect Ratio
- Add a few still photos to the beginning of the project
 - Show Photos window (click camera icon - right of tool bar)
 - Drag photos to Timeline (top center window)
 - click duration icon in lower left of a photo in timeline
 - change duration to 10 seconds
 - select “Applies to all photos”
- Click the Crop icon (second from upper left)
 - For the title slide, click Fit in the Viewer window
 - For the other slides, click the Ken Burns option
 - Click the green Start and red End boxes to control how the photo pans
 - Alternate panning in (large green, small red box) and panning out
 - Click Done in the Viewer
- Click the Transitions icon (right-most in toolbar)
 - Drag Cross Dissolve between the photo clips in the Project window
- Record Voiceover
 - Select all photo clips (including transitions)
 - Select the Microphone icon (middle of toolbar)
 - To begin recording click just after the beginning of the first clip
 - There will be a 3-2-1 countdown before you can begin recording
 - Briefly describe each item used in the demo
 - Click again to stop recording (recording will also stop at end of selected clips)
- Add video clip
 - select iPhoto Videos
 - drag clip to end of timeline
- Optional if time allows
 - add summary video clip from iMovie
 - click camera icon
 - frame the shot

- click Capture, record, then click Done
 - drag clip to timeline
- add title to beginning of project
- Export to File
 - Share --> Export Movie
 - Select Medium size or smaller to minimize file size and time to export
 - Name the movie but be sure to keep the .m4v extension; save on Desktop or in your Documents folder
- Double-click your .m4a podcast file to view it in iTunes
- Other options for the classroom
 - use iDVD to burn a copy of the project(s)
 - compare and contrast student labs; account for observed variance
 - use exported movie in Keynote presentation

5. Reflection and Evaluation

- How could iMovie help students learn and demonstrate their understanding in Science?
- Complete the End-of-Session Survey